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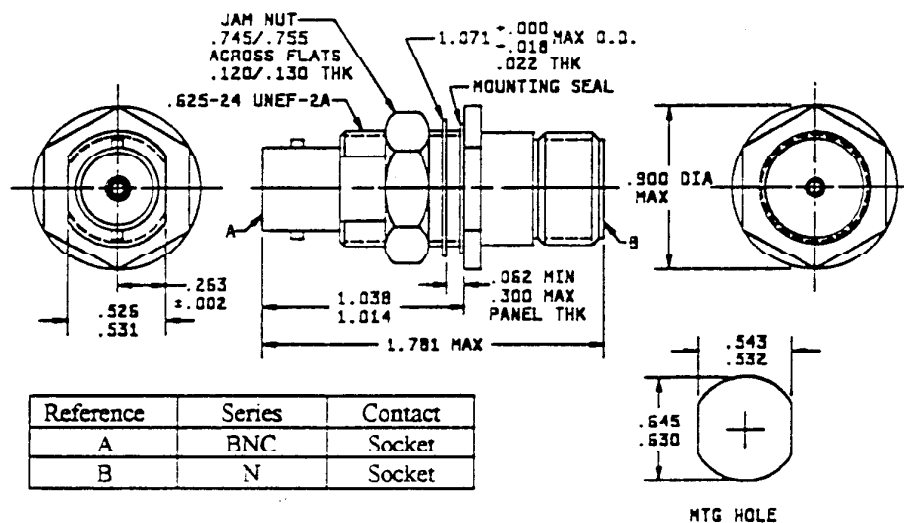
MIL-PRF-55339/25B
23 March 1988
SUPERSEDING
MIL-A-55339/25A
28 February 1978

PERFORMANCE SPECIFICATION

ADAPTER, CONNECTOR, COAXIAL, RADIO FREQUENCY, IN-LINE JAMNUT MOUNTED (BETWEEN SERIES BNC JACK TO SERIES N JACK), CLASS 2

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the adapters described herein shall consist of this specification and the latest issue of Specification MIL-PRF-55339.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. All undimensioned pictorial representations are for reference purposes only.
4. Interfaces shall be per MIL-STD-348.

(B)

Inches	mm	Inches	mm
.002	0.05	.543	13.79
.018	0.46	.625	15.88
.022	0.56	.630	16.00
.062	1.57	.645	16.38
.120	3.05	.745	18.92
.263	6.68	.900	22.86
.300	7.62	1.014	25.76
.526	13.36	1.038	26.37
.531	13.49	1.071	27.20
.532	13.51	1.781	45.24

FIGURE 1. General configuration.

(B)

denotes change

DESIGN AND CONSTRUCTION:

General configuration: See figure 1.

Impedance: 50 ohms, nominal.

Working voltage:

Sea level: 500 V rms.
70,000 feet: 125 V rms.

Frequency range: 0 to 4 GHz.

Temperature range: -65°C to +165°C.

PERFORMANCE (installation torque of 6 to 10 inch-pounds, series N):

⑧ **Dimensions:** See figure 1 and MIL-STD-348.

Center contact retention:

	<u>Series BNC</u>	<u>Series N</u>
Axial force (pounds, minimum) - - - - -	6	6
Torque (ounce-inch, minimum) - - - - -	N/A	N/A

Force to engage and disengage:

	<u>Series BNC</u>	<u>Series N</u>
Longitudinal force (pounds, maximum) - - - -	3.0	N/A
Torque (inch-pounds, maximum) - - - - -	2.5	6.0

Coupling proof torque: Not applicable.

Mating characteristics:

Center contact (socket):	<u>Series BNC</u>	<u>Series N</u>
⑧ Oversize test pin diameter (inch, minimum) - - -	.057	.074
Insertion depth (inch, minimum) - - - - -	.125	.125
Number of insertions - - - - -	1	1
Maximum test pin (insertion force test):		
Steel test pin diameter (inch, minimum) - - -	.054	.066
Pin finish (microinches) - - - - -	16	16
Insertion force (pounds, maximum) - - - - -	2	2
Number of insertions - - - - -	1	1
Minimum test pin (withdrawal force):		
Steel test pin diameter (inch, maximum) - - -	.052	.063
Pin finish (microinches) - - - - -	16	16
Withdrawal force (ounces, minimum) - - - - -	2	2
Number of withdrawals - - - - -	1	1

Outer contact: Not applicable.

Permeability: < 2.0.

Seal:

Hermetic: Not applicable.
Pressurized: 30 psi minimum.
Weatherproof: 30 lbf/in².

Insulation resistance: 5,000 megohms, minimum.

Voltage standing wave ratio (VSWR): 1.30, maximum at .5 to 4 gigahertz (GHz).

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RF leakage (total): -55 dB, minimum, 2 to 3 GHz.

RF insertion loss: .2 dB, maximum, 3 GHz.
 $(.012 \sqrt{F \text{ (GHz)}} \text{ dB maximum tested at 3 GHz}).$

Durability: 500 cycles minimum at 12 cycles per minute maximum.

Dielectric withstanding test voltage: 1,500 V rms, minimum (sea level).

Contact resistance (milliohms, maximum):

<u>Contact</u>	<u>Initial</u>	<u>After</u>
Center	2.0	2.5
Outer	0.2	N/A

Vibration, high frequency: Interruptions, 1 microsecond (μ s) maximum.

Shock: Test condition I.

Thermal shock: Test condition C.

Moisture resistance: 200 megohms, minimum.

Corona level:

Voltage: 375 V, minimum.
 Altitude: 70,000 feet, minimum.

RF high potential withstanding voltage:

RF voltage: 1,000 V rms, minimum.
 Frequency: 5 megahertz (MHz), minimum.

Salt spray (corrosion): Applicable.

Coupling mechanism retention force: Not applicable.

MARKING: As specified in MIL-A-55339.

Part number: M55339/25-00606.

Cross reference: See table I.

TABLE I. Cross reference of part numbers.

<u>Part number</u>	<u>Superseded part number or type designation <u>1/</u></u>
M55339/25-00606	51C12929 UG-606/U

1/ The superseded part number or the type designation is for cross reference only. Where a superseded part number or type designation is not given, none was assigned or will be assigned. The part number M55339/25-00606 shall be used in all cases for marking and identifying the adapter.

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Custodians:

Army - CR
Navy - EC
Air Force - 85

Review activities:

Army - AR, MI
Navy - OS, SH
Air Force - 11, 99
DLA - ES

User activities:

Army - AT
Navy - AS, MC, SH
Air Force - 19

Preparing activity:

Army - CR

Agent:

DLA - ES

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